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AFGHANISTAN

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FACT SHEET

Afghan Clean Energy Project (ACEP)

OVERVIEW

USAID is committed to building the capacity of the Afghan government to provide its people with clean renewable energy to power their homes, schools, and businesses. Clean and inexpensive energy will power Afghanistan's economic growth, improve schools, clinics, government services, and the safety and quality of life for thousands of Afghans. The Afghan Clean Energy Project (ACEP) aims to foster energy independence and development through increased use of renewable energy technologies, increased energy efficiency, and establishment of a local renewable energy equipment and service industry.

CURRENT ACTIVITIES

- **Power generation:** Build and rehabilitate hydro, solar, and wind power generators and irrigation pumps for more than 700,000 beneficiaries, for homes, schools, clinics, irrigation pumps, and other essential needs
- **Energy efficiency:** Promote energy efficiency by promoting improved management of utilities and efficient energy use throughout the Afghan distribution system
- **Renewable energy integration** – Assess the technical, financial, and social feasibility of large grid-connected renewable energy systems, such as large solar, solar cell arrays, wind turbines or various hydro power systems
- **Capacity building:** Work with local universities to provide training in areas such as renewable energy policy and strategy, renewable energy standards, and standardized designs.
- **Alternative energy projects:**
 - Install solar hot water system in Kabul University Girls Dormitory, four solar systems in district centers in Wardak and one in Baba Sahib district center, and thirty solar systems in health clinics in Ghor, Samangan, Parwan, Balkh, Ghazni, Kandahar, Hirat, and Kapisa Provinces.
 - Erect more than 300 solar street lights in Now Zad, Shinkay, Chaghcharan, Faizabad, and Marmal Districts in Hilmand, Zabul, Ghor, Badakhshan, and Balkh provinces
 - Install solar and wind water pumps at various locations in Kandahar, Kapisa, Kabul, and Hirat provinces
 - Provide 7,600 solar-powered lanterns throughout Afghanistan to replace dirty, dangerous, and expensive kerosene lanterns
 - Install wind power in northern and eastern Afghanistan

ACCOMPLISHMENTS

- Electrified two comprehensive health clinics with 5 kW solar power systems in Ghazni Province, along with solar hot water, and a solar refrigerator for the Ministry of Public Health
- Installed solar systems totalling 20 kW to electrify two schools in Bamyan and one school in Nuristan, which are capable of powering lights, computers, DVDs, and projectors for the Ministry of Education
- Trained 461 men and 37 women on various topics, including wind energy, solar food drying, solar and wind water pumping, micro-hydro power, and energy efficiency
- Wrote Afghanistan's first solar implementation guideline and technical specification for the Inter-Ministerial Commission for Renewable Energy Technical Working Group
- Installed 367 solar streetlights in Kandahar, Langar, Hilmand, Paktika, Uruzgan, Nuristan, Bamyan, Kabul, Badakhshan, Wardak, and Khost Provinces
- Conducted Energy End Use Survey of Kabul and Bamyan residential, commercial, and industrial users